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1961

OF ALBERTA HOSPITAL

EDMONTON

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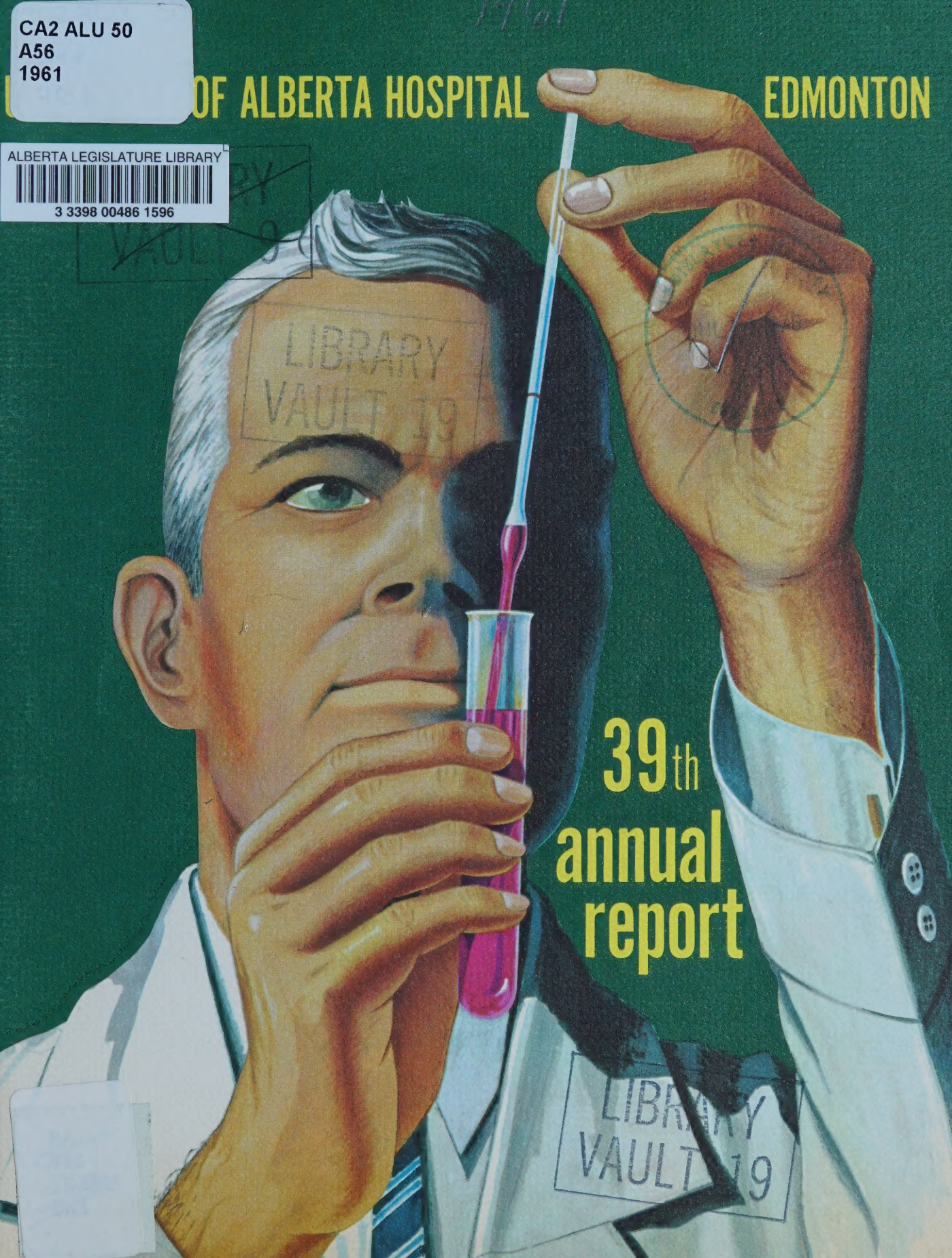


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39th
annual
report

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*As always, vigilant
nursing remains the
keystone on which
good patient care is
based*





Thirty Ninth
ANNUAL REPORT

FOR THE YEAR ENDING DECEMBER 31, 1961

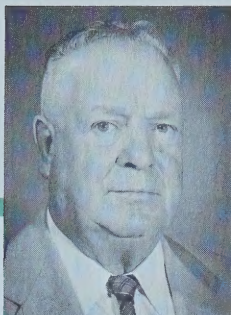
THE UNIVERSITY OF ALBERTA HOSPITAL FOUNDATION

The dramatic progress that has been made in patient care during the past two decades has been beneficial to all Canadians. In many instances it has been life saving, and in others it has prevented incapacitating disability and has restored useful function. It has prolonged life expectancy and has made it possible for many who would previously have had a lifetime of invalidism to live a normal life. This has been made possible by the education and clinical research carried on in the University of Alberta Hospital and others like it in all parts of the country.

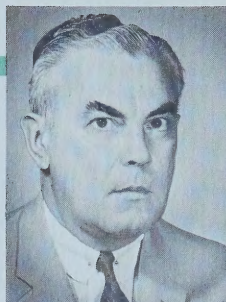
Education and clinical research are costly functions of a teaching hospital. Unfortunately many of our residents have been led to believe that under the national hospitalization plan all of these costs are met by government funds. Such is not the case. You will realize as you read this Annual Report that the staff of this hospital conducts an increasingly large and progressive clinical research program. The costs of this work, which will result in even greater health benefits to mankind, must be met by funds obtained from sources outside the hospitalization insurance program.

In order that such funds may be obtained and kept in trust to be used only for specified purposes, the University of Alberta Hospital Foundation has been created by an Act of the Legislature. The Foundation will be operated as an agency entirely independent of the hospital by an appointed Board, and funds will be granted only for projects that are not accepted as financial obligations by the hospitalization plan.

Gifts and bequests to the Foundation are normally considered as tax-free. All those interested in contributing to the future health of the nation through financial support of a clinical research and educational program, are advised to consult their financial or legal advisers for details on support of the University of Alberta Hospital Foundation.



D. J. AVISON
Chairman



DR. W. H. JOHNS
*President
University of Alberta*



E. MATHER
Dept. of Public Health



DR. W. C. MacKENZIE
Dean of Medicine

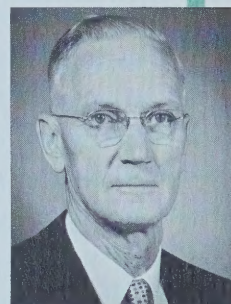
UNIVERSITY HOSPITAL BOARD



J. M. CURRIE
*Asst.-Deputy
Prov. Treasurer*



DR. E. E. ROPER
*Mayor,
City of Edmonton
(Retired from Board,
1961)*



DR. A. SOMERVILLE
*Deputy Minister
of Health
(Retired)*

ADMINISTRATIVE COMMITTEE



DR. J. D. WALLACE
Executive Director



MISS JEANIE S.
CLARK, R.N., B.Sc.,
Director of Nursing



DR. B. SNELL
*Medical
Superintendent*

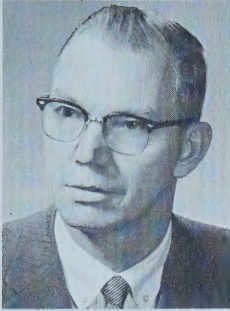


G. C. SHERWOOD
Business Administrator

ADMINISTRATION

Mr. L. R. ADSHEAD
 Dr. J. D. WALLACE
 Dr. B. SNELL
 Mr. G. C. SHERWOOD
 Miss J. S. CLARK
 Dr. D. R. WILSON
 Dr. R. A. MACBETH
 Dr. J. R. VANT
 Dr. J. K. MARTIN
 Dr. K. A. YONGE
 Dr. M. T. F. CARPENDALE
 Dr. E. A. GAIN
 Dr. H. E. DUGGAN
 Dr. R. E. BELL
 Dr. J. W. MACGREGOR
 Dr. H. R. MacLEAN
 Dr. A. S. LITTLE
 Dr. F. G. RAMSAY
 Miss I. TORRINGTON
 Miss J. G. NAIRN
 Miss M. PRICE
 Mr. W. W. MADAY
 Mr. J. ELLISON
 Mr. S. WOOD
 Mr. J. BEATON
 Mr. J. PEDDEN
 Mr. E. ROSE
 Mr. A. BUYSSEN
 Mr. D. SCHNEIDER
 Mrs. J. RYMAL
 Miss I. CHENARD

Administrator—January to June
Executive Director—October to December
Medical Superintendent
Assistant Administrator (Business Administrator effective October)
Director of Nursing
Director, Department of Medicine
Director, Department of Surgery
Director, Department of Obstetrics and Gynaecology
Director, Department of Paediatrics
Director, Department of Psychiatry
Director, Department of Physical Medicine and Rehabilitation
Director, Department of Anaesthesia
Director, Department of Radiology
Director, Department of Clinical Laboratory Services
Director, Department of Pathology
Director, Department of Dentistry
Director, Department of Out-Patient and Emergency Services
Senior Treatment Medical Officer, D.V.A.
Director of Dietary Department
Medical Records Librarian
Admitting Officer
Director of Pharmaceutical Services
Comptroller
Accountant and General Office Manager
Purchasing Agent
Personnel Officer
Maintenance Co-ordinator—January to June
Superintendent of Buildings—July to December
Laundry Manager
Director of Voluntary Services
Director of Social Service Department

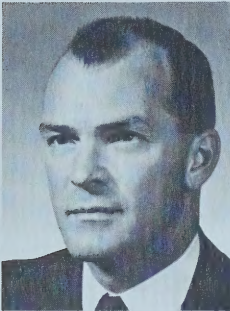


L. R. ADSHEAD

Mr. Adshead, affectionately known as "Reg" to his many friends and acquaintances, was born in Edmonton of pioneer stock. He was raised in this city and on completion of his schooling he obtained employment in the Accounting Office of the University Hospital. His period of service to the hospital remained unbroken until he resigned effective June 30, 1961, to become Administrator of the Foothills Provincial General Hospital in Calgary. During his career he progressed steadily upwards through the ranks of Assistant Accountant, Accountant, Treasurer, Secretary-Treasurer, and Assistant Administrator, until he was finally appointed Administrator.

During his career he has been active in the affairs of the Associated Hospitals of Alberta and Blue Cross, and he is a member of the American College of Hospital Administrators.

Mr. Adshead has seen the University of Alberta Hospital grow from a small unit of just over one hundred and fifty beds to its present size and complexity. During the most active years of this development he was a senior administrator and as such had much to do with the drive that resulted in our present hospital. He will be missed, and the University Hospital wishes him every success in his new position.



DR. J. D. WALLACE

Dr. Wallace, who replaced Mr. Adshead in the senior administrative position, is another true Westerner. Born in Saskatchewan he obtained his schooling at Wainwright, Alberta, where his father was a pioneer doctor. He graduated in Medicine from the University of Alberta in 1940 in time to serve in the R.C.A.F. for five years. He served as a Junior Intern in this hospital before enlistment and returned after the war to complete a year as a Resident in Orthopaedics.

To a basis of medical administrative training obtained in the Armed Forces, he added further administrative experience during his years of practice, and in 1960 he became Director of Hospital Services for Alberta. Following a course for Senior Administrators at Cornell University School of Hospital Administration, he was successful in his application to return to the hospital in which he took his initial clinical training, this time as its senior administrator.

Dr. Wallace's years of practice, together with a knowledge of medical administration and a patient-centred interest in hospital organization and management, should prove to be a combination that will insure continuing progress in the University of Alberta Hospital.

the old
order
changeth



JEANIE S. CLARK

A Calgarian by birth, Miss Clark obtained her public and high school education in that city. She is a graduate of the University of Alberta Hospital and holds a Bachelor of Science degree from the University of Alberta and a Master of Public Health degree from Johns Hopkins University, Baltimore, Maryland. Miss Clark also completed the Part One examination of the Central Midwives Board at the Royal Infirmary, Edinburgh.

The first half of her professional experience was in the field of Public Health. She was employed by the Baker Memorial Sanatorium, the Foothills Health Unit, the City of Calgary Health Department, and the Alberta Association of Registered Nurses. With the Provincial Health Department she served at Drumheller as Assistant Director and Director of the Division of Public Health Nursing, and as a member of the Alberta Health Survey Committee. For the past eleven years at the University of Alberta Hospital she has been First Assistant in Nursing Service, Educational Supervisor, and Director of Nursing.

The University of Alberta Hospital wishes Miss Clark well on her departure to her new position as Director of Nursing in the Foothills Provincial General Hospital, Calgary.



M. GENEVA PURCELL

An Edmontonian by birth, Miss Purcell obtained her public and high school education in the East. She is a graduate of the Royal Victoria Hospital in Montreal and holds a Bachelor of Nursing degree from McGill University and a Master of Science in Nursing degree from Boston University.

Her professional experience mainly has been in her own school of nursing in the capacities of General Duty Nurse, Charge Nurse, Nursing Supervisor, Instructor and Clinical Supervisor in Surgical Nursing, Administrative Assistant to the Director of Nursing, and Supervisor of Nursing—Women's Pavilion. For a period Miss Purcell was Director of Nursing at the Brockville General Hospital. The University of Alberta Hospital welcomes Miss Purcell as the Director of Nursing.

REPORT OF THE EXECUTIVE DIRECTOR

Mr. D. J. Avison,
Chairman,
University of Alberta Hospital Board,
Edmonton, Alberta.

Sir:

In presenting to you my first annual report as Executive Director of the University of Alberta Hospital, it is appropriate that I express my gratification at having the opportunity of returning to the hospital in which I received my own clinical experience in medicine, to contribute what I can to its future development. I should like as well to note that the capable administration of my predecessors, Dr. A. C. McGugan and Mr. L. R. Adshead, together with the progressive outlook of the members of the Board, has produced an efficient hospital that provides good patient care and first-class facilities for teaching and research. The task to which I have dedicated myself is that of seeing that this hospital provides a maximum return in service to the people of the Province that developed it and pays for its operation.

You may look upon the achievements of 1961 with justifiable pride as they show a continuing increase in activity and improvement in service. The credit for this is largely due to Mr. L. R. Adshead who was Administrator until the end of June. From the time of his departure to his new position as Administrator of the Foothills Provincial General Hospital in Calgary, until my arrival in October, efficient operation was continued under the joint administration of Dr. Bernard Snell, Medical Superintendent, and Mr. George Sherwood, Business Administrator. They are to be commended on their administrative abilities and on the manner in which they have co-operated with me in the setting up of a new organizational pattern.

The first complete year of operation of the Clinical Services Wing has produced the results that were expected. The quality and quantity of patient care have increased considerably and the operational costs of the hospital have taken a sharp jump upward. While this might be of great concern to some, it should be viewed with satisfaction as it proves that these new facilities are producing the results that are expected of them. This hospital now provides a range of diagnostic and treatment procedures unmatched anywhere in the Province and equalled in very few centres in Canada. Since we have them we must make them available to all patients who require them, and this has greatly increased our bed occupancy and utilization of services. As a result the cost of providing a patient with a day of care has risen from \$18.97 in 1960 to \$20.64 in 1961; an increase of 8.8%.

The acceptance of this hospital's proper role in health care in Alberta has placed it in a correct and more co-operative relationship with other hospitals. In its basic function of patient care in the community, the University of Alberta Hospital should be looked upon as playing the same role as any other large metropolitan hospital and must provide prompt and efficient service to the sick and injured to the best of its ability. Above that, however, is added a heavy responsibility of special services and procedures, education, and clinical research that is shared to a much lesser degree by any other hospital in the Province. This provision, as well, is costly, and it therefore appears impractical to attempt to operate a patient-care, teaching and research centre under a cost ceiling already exceeded by other general hospitals. If the University of Alberta Hospital is to fulfill its proper role, we must be prepared to accept higher patient-day costs than might be acceptable in other hospitals. If we aren't prepared to do that, the potential service of the facilities and the staff are wasted.

This does not indicate that we are about to take off on an uncontrolled spending spree. Your Board has already approved the policy of making the best use of the hospital facilities and staff, and of avoiding such manipulations as long stay and low occupancy which might keep it under the rated bed-day ceiling. Administration has been organized to insure the best possible return for each dollar spent and you may rest assured that the Province will receive good service for the funds expended for this hospital.

The renovation program of the 1929 Wing has been much more extensive than was originally planned. This resulted primarily from the difficulties experienced in replacing the plumbing, heating, and wiring, and it became necessary to reduce the building to a mere shell. The end result is virtually a new building which will provide modern, patient-care facilities. This project is now nearing completion and should be in service by the middle of 1962.

A major problem developed in the Clinical Services Wing when it was discovered that, as a result of unusual climatic conditions during the construction period, serious flaws had developed in the brickwork. During the summer of 1961 it became necessary to strip off all the bricks from the north side of the building and re-lay them. A close watch is being kept on the rest of the building. A similar problem was encountered in the conductive flooring in the Surgical Suite and Emergency Department. In this case the material used was found to be defective and the floors were replaced by the supplier at no cost to the hospital.

Planning for the final phases of the renovation program approved in 1956 continued during the year, and detailed plans and specifications were prepared for the auditorium and incinerator. Preliminary plans were developed as well for the new construction and renovation program required in the kitchen and stores areas. We were disappointed to learn late in the year that the previously-approved program had been delayed by government and would probably not be continued during 1962.

Patient-care areas have continued operating at an accelerating pace during the year. While the nursing complement remained at a high level during most months, there was a serious shortage of Registered Nurses during the summer, amounting at one stage to almost 33%. Although it became very difficult to provide proper patient care, all wards were kept in service because of a continuing high occupancy. However, it was necessary to close two operating rooms and this resulted in a troublesome and aggravating backlog of surgical patients. Early indications are that there will be a repetition of this shortage during the summer of 1962 and steps are being taken to minimize the effect.

During the year 22,059 in-patients were treated, and there were 124,281 out-patient visits to various hospital facilities. A greater utilization of out-patient services reduces the demand for beds, and Administration has begun a study of means by which this may be accomplished. Before any successful program can begin at least some out-patient services must be approved as benefits under the Provincial Hospitalization Plan. When this is done, close study will be given to the use of day-bed facilities and the provision of self-care units in close proximity to the hospital.

Percentage occupancy dropped from a high of 87.43 in 1960 to 84.5 in 1961, and the average length of stay dropped slightly from 15.52 to 15.31 days. These figures include a number of special and long-term care areas in the hospital and do not give a true picture of the activities of acute-care areas. We had an average of 958 patients in hospital each day, with the number varying from a high of 1,089 one day in February to a low of 809 on one occasion in September. The Admitting Office handled 100 admissions on its busiest day, and toward the end of the year we discharged 128 patients on a single day.

The Disaster Plan of the hospital was re-organized during the year and we are now quite confident that casualties resulting from a major disaster in the Edmonton area could be handled efficiently. A trial run will be held during the autumn of 1962.

The format of the annual report has been changed this year to provide what we hope might be a more readable document. Only the highlights of individual departmental reports have been produced and greater use has been made of illustrations. This is in line with the modern trend toward condensation. For those who wish to study the detailed reports, copies are available and will be sent by the Medical Superintendent on request.

In closing I should like to offer, through you, my sincere thanks to the Hospital Board, members of the Administrative and Departmental Staffs, the Faculty of Medicine at the University of Alberta, and the members of the staff of the Departments of Health and Public Works, for the co-operation and assistance I have received during my orientation period in this position.

Respectfully submitted,
J. D. WALLACE, M.D.,
Executive Director.

REPORT OF THE BUSINESS ADMINISTRATOR

Dr. J. D. Wallace,
Executive Director,
University of Alberta Hospital,
EDMONTON, Alberta.

Sir:

It is with pleasure that I present this, my first report, as Business Administrator of the University of Alberta Hospital. As a part of this report, I am attaching in summary form, a statement of our incomes and expenditures for the year 1961 as compared to the year 1960. These figures demonstrate an increase in the cost of operating the hospital of \$367,400.00 over the previous year. The increased cost of salaries and wages accounts for \$286,000.00 of this amount while other expenses increased by \$81,400.00. The relative relationship of these two main divisions of expense compared to the total operating expense remained about the same as the previous year, with salaries increasing from 70.04% to 70.49% and other expenses decreasing from 29.96% to 29.51%. On the income side we required \$201,500.00 more under the Alberta Hospitalization benefits plan than we required during the previous year. Revenue under our contract with the Department of Veterans Affairs increased slightly by \$2,900.00. Revenues from preferred accommodations increased by \$9,300.00 and revenues received directly from the Provincial Government for services provided to Maternity and Pensioner Group patients decreased by \$8,100.00. Revenues from all other sources increased by \$161,800.00 and this may be attributed to the increased daily ward charge to non-resident patients which became effective January 1, 1961.

During the year 1961 the newly created position of Comptroller was filled through the promotion of Mr. J. E. Ellison formerly the Chief Accountant. Mr. Ellison's main area of responsibility will be budget preparation and budget control, but he will also have direct supervisory responsibility for such areas as the Accounting Department, Credit Department and Purchasing Department. Also, during this year and because of the vacancy created by the resignation of our Maintenance Supervisor, this position was reclassified under the title of Building Superintendent and was filled by a qualified mechanical engineer in the person of Mr. A. Buysen who has already effectively demonstrated the need and value of his professional qualifications on the administrative team. I expect this officer to be of major assistance to me, particularly during the next few years in which some of our major renovation programmes are planned to be carried out.

In May of 1961 we occupied the new Laundry and Shops Building located to the north and west of the main hospital buildings. This building now houses one of the most up-to-date institutional laundries to be found on the North American Continent. Due to the efficiency of new equipment and improved system of production, the laundry output has already been increased by 15% with 3 fewer employees. The building also provides accommodation for a central linen storage and distribution centre, a new morgue, a large carpenters manufacturing shop and a paint shop equipped to refinish metal furniture by the baked enamel process.

The following statistical figures are provided to indicate the movement of staff during the year 1961 as compared to the year 1960. A change in the method of presenting these figures will provide an improved basis of comparison in future years. The figures indicate an overall slight improvement in the stability of staff during the year, although, in several areas the improvement is substantial, the Dietary Department, being a case in point. The instability of tenure of Graduate Nurses continues to be alarmingly high with a substantial increase over the previous year. In the summer of 1961 the hospital experienced an extreme shortage of Graduate Nurses, and although present indications are that there will be a considerable improvement in 1962, shortages in the summer months will continue to be the rule. The administration is continuing to seek ways and means of improving the general stability of staff.

I wish at this time to pay tribute to Mr. L. R. Adshead who resigned as Administrator of this hospital in June of 1961. Mr. Adshead first joined the hospital staff as Accountant in May of 1928 and served in various administrative capacities over the ensuing 32 years until October 1, 1960 on which date he assumed the senior administrative post of Administrator. Mr. Adshead resigned to accept an appointment as Administrator of the new Foothills Provincial General Hospital being built

	Budgeted Established 1960		Separations 1960	Budgeted Established 1961		Separations 1961		
	Full Time	Part Time		Full Time	Part Time	Full Time	Temporary	Part Time
Administration	86	8	42	87	8	27	8	6
Direct Care Nursing								
Graduate Nurses	335	4	238	342	9	301	--	15
Certified Nursing Aides	100	--	52	109	--	65	--	--
Ward Aides	117	--	126	118	--	66	31	--
Orderlies	82	--	47	81	--	24	18	1
Ward Clerks & Stenos.	27	2	5	27	2	8	--	6
Nurses Res. & Interns Qtrs.	28	--	5	27	1	3	2	--
Medical Records	25	--	11	26	1	5	3	--
Medical Directors	--	5	--	1	5	--	--	--
Anaesthesia	2	--	--	2	--	--	--	--
Cl. Labs. & Research	74	16	37	97	13	30	9	--
Pharmacy	10	--	4	12	--	2	2	--
Orthopaedics	4	--	--	4	--	--	--	--
Ophthalmology	1	--	--	1	--	--	--	--
Rehab. & Psychiatry & Academic School	44	1	25	48	1	13	9	1
Medical Social Service	3	--	1	4	--	4	--	1
X-ray	26	--	15	27	--	14	4	1
Dietary	137	13	135	139	13	55	12	4
Housekeeping	76	--	47	75	--	23	20	--
Janitors & Elev. Op.	43	--	14	42	--	12	5	--
Linen Service	67	--	36	67	--	14	6	--
Maintenance	45	--	16	46	--	--	12	--
	1,332	49	856	1,382	53	666	141	34

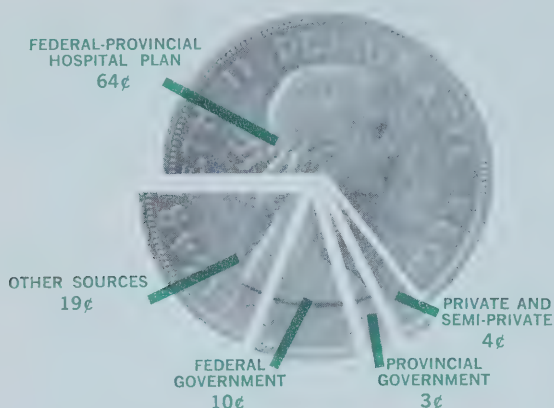
in Calgary. Prior to his resignation, and for approximately a year and a half he had been acting as consultant to the Foothills Hospital Board in the planning and development of this new 700 bed institution. Through my close association with Mr. Adshead over the past 23 years, I have nothing but the highest respect for him personally and for his ability as a hospital administrator. For years to come, I will be able to see many testimonials of Mr. Adshead's contribution to the development of the University of Alberta Hospital as a major teaching and advanced service institution serving the people of this province.

I wish to indicate also, my appreciation to the very many who have assisted me in assuming the position of Business Administrator of this hospital. I have no fears for the future of this institution for as long as we may continue to lay claim to the dedicated efforts of so many capable and co-operative people.

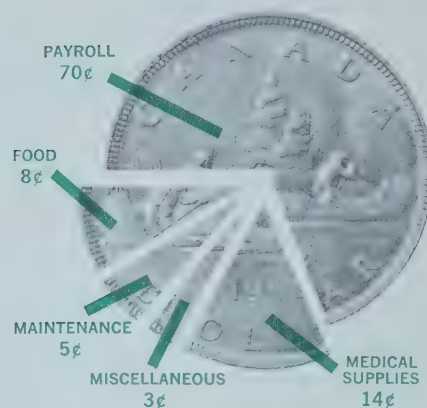
Respectfully submitted,
G. C. SHERWOOD,
Business Administrator.

FINANCES

WHERE OUR DOLLAR COMES FROM



WHERE OUR DOLLAR GOES



OUR MAIN SOURCES OF INCOME ARE

Alberta Hospitalization Benefits Plan
Federal Government on behalf of
D.V.A. and D.N.D. patients
Private and Semi-Private differentials
Provincial Government—direct
hospitalization payments
Other Sources—W.C.B., Blue Cross,
Private Insurance, Non-Residents

1961		1960	
DOLLARS	%	DOLLARS	%
4,288,000.00	64.47	4,086,500.00	65.03
651,000.00	9.79	648,100.00	10.32
262,000.00	3.94	252,700.00	4.02
198,500.00	2.98	206,600.00	3.29
1,251,400.00	18.82	1,089,600.00	17.34
6,650,900.00	100.00	6,283,500.00	100.00

OUR PRINCIPAL EXPENSES ARE:

Payroll
Food and Dietary Supplies
Medical Supplies
Plant Maintenance—excluding
depreciation
All Others

1961		1960	
DOLLARS	%	DOLLARS	%
4,687,000.00	70.49	4,401,000.00	70.04
510,600.00	7.67	510,100.00	8.12
915,100.00	13.76	872,300.00	13.88
336,500.00	5.05	323,750.00	5.15
201,700.00	3.03	176,350.00	2.81
6,650,900.00	100.00	6,283,500.00	100.00

OUR PRINCIPAL ASSETS ARE:

Cash on hand and in Bank
Inventories
Accounts Receivable—less provision
for doubtful accounts
Plant Funds—including land, buildings
and equipment

264,000.00
286,000.00
929,300.00
18,500,000.00

CURRENT LIABILITIES

Trade Accounts—Salaries and wages due

322,600.00

SOURCES OF CAPITAL FUNDS

Province of Alberta
University Hospital
Federal Government
Federal Provincial Plan

13,500,000.00
1,706,000.00
687,000.00
2,760,000.00

PATIENT STATISTICS	1961	1960
Patients in Hospital at Beginning of Year --	796	799
Number of Patients Admitted During Year --	22,059	22,166
Number of Patients Discharged During Year	21,496	21,582
Number of Patients Deceased During Year _	591	587
Patients Remaining at End of Year -----	768	796
Total Number of Patient Days -----	349,818	356,449
Daily Average Number of Patients -----	958	976
Average Stay Per Patient (Days) -----	15.31	15.52
Percentage of Bed Capacity Occupied ----	84.5	87.4

BED CLASSIFICATION OF PATIENTS

Private -----	656	736
Semi-Private -----	3,969	3,859
Public -----	11,672	12,087
Out-Patient Department -----	1,653	1,235
Department of Veterans' Affairs -----	506	427
Others -----	3,602	3,822

RADIOLOGY DEPARTMENT

Number of Films Taken -----	132,900	106,850
Number of Examinations Done -----	41,514	36,131
Average Number of Films Per Examination _	3.20	2.95
Fluoroscopic Examinations -----	4,355	4,100

CLINICAL LABORATORY DEPARTMENT

Laboratory Examinations -----	313,626	290,086
B. M. R. -----	355	412
E. C. G. -----	6,643	2,036

OUT-PATIENT DEPARTMENT

Patients Enrolled -----	4,869	4,149
Patient Visits -----	18,870	20,175
Patients Admitted to Hospital -----	1,653	1,235

OUT-PATIENT VISITS—1961

Total Number of Out-Patient Visits -----	124,281
Emergency Department -----	24,431
Rehabilitation Department -----	22,881
Clinical Laboratories -----	21,515
D.V.A. Out-Patient Clinics -----	21,128
Out-Patient Department -----	18,870
Radiology Department -----	11,998
Plaster Room -----	1,707
Orthoptic Department -----	785
Cystoscopy Room -----	513
Glaucoma Clinic -----	292
Operating Room -----	99
Cardiac Rounds -----	38
Psychology Department -----	24

COST OF LIVING—STILL GOING UP

Average Cost—Basic Foods	1959	1960	1961
Meat, Lb. -----	\$.4113	\$.4354	\$.5578
Turkey, Lb. -----	.3792	.4359	.5409
Butter, Lb. -----	.6415	.6400	.6400
Eggs, Doz. -----	.3694	.3700	.2508
Potatoes, Bus. -----	1.4600	1.4700	1.7300
Meal Counts and Food Costs	1959	1960	1961
Meal Count—Staff -----	151,912	177,262	182,136
Meal Count—Patients -----	349,928	339,313	329,048
Total -----	501,840	516,575	511,184
Raw Food Cost -----	\$467,417	\$469,165	\$466,992
Average Cost Per Meal Day	\$.9315	\$.9082	\$.9135

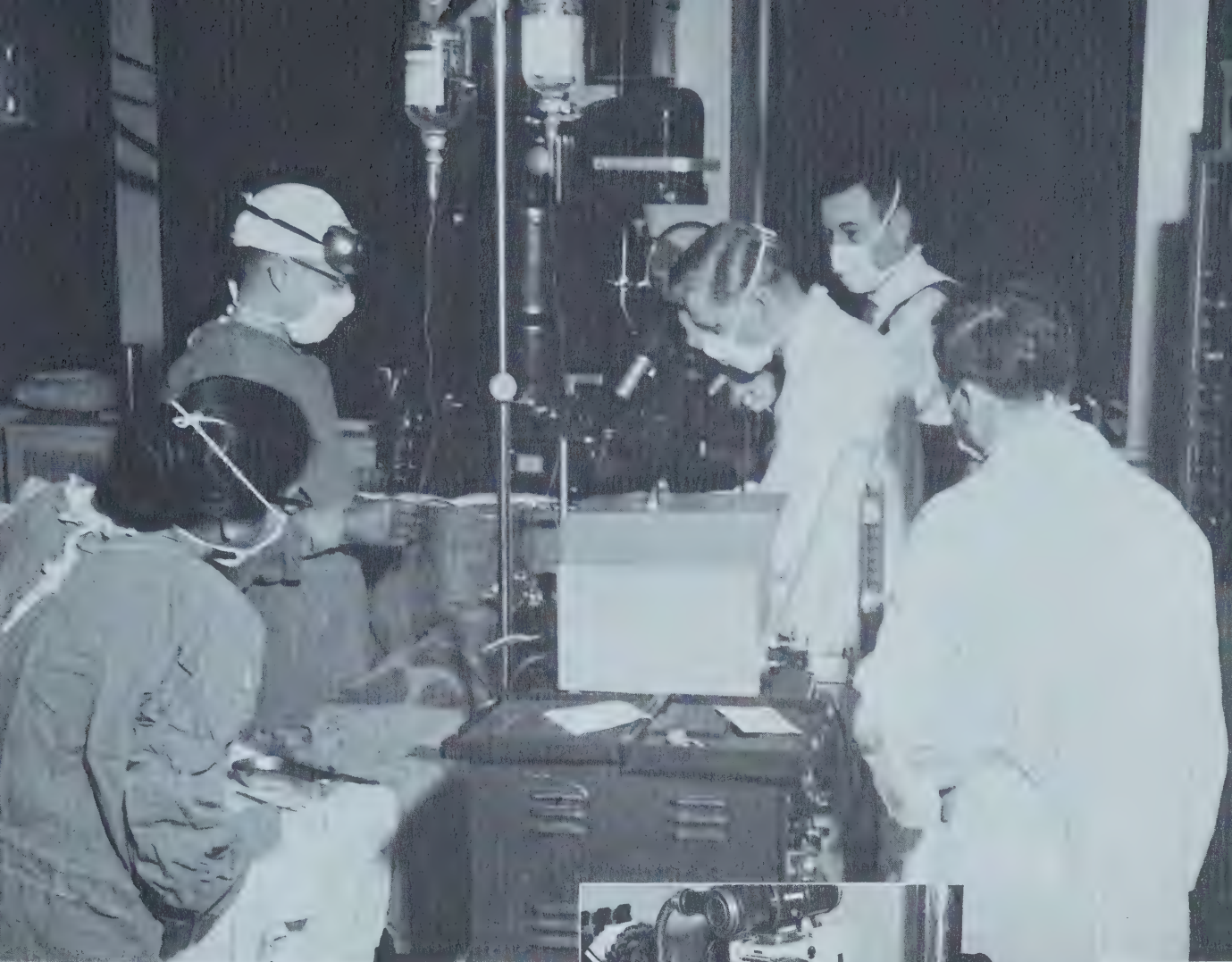
WHY ARE THE COSTS RISING?

Cost of Supplying a Day of In-Patient Care	1961	1960	Increase
Total Cost Per Patient Day --	\$20.64	\$18.97	\$1.73 (+ 9.15%)
Factors Causing Increase --			
Staff Salaries -----	\$14.55	\$13.17	\$1.38 (+10.47%)
Medical Supplies -----	2.85	2.63	.22 (+ 8.36%)
Plant Maintenance ----	1.04	.98	.06 (+ 5.77%)
Food and Dietary -----	1.58	1.54	.04 (+ 2.53%)
All Others -----	.62	.65	.03 (— 4.84%)

It is interesting to note that increased staffing costs caused 79.76% of the increase in patient day costs.

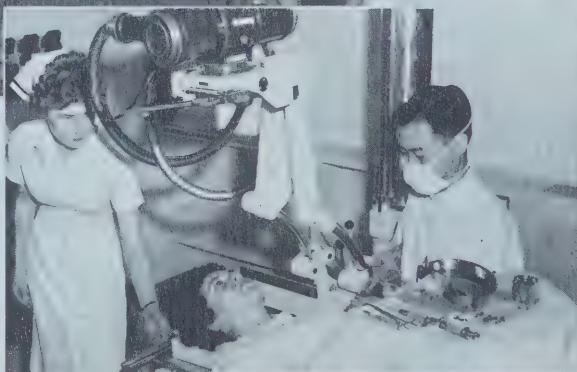
Radiation Dosage Measurement by the Physicist. Numerous chambers have been placed on the wax model. Doctor Olde is making measurements using the Victoreen R-Meter.



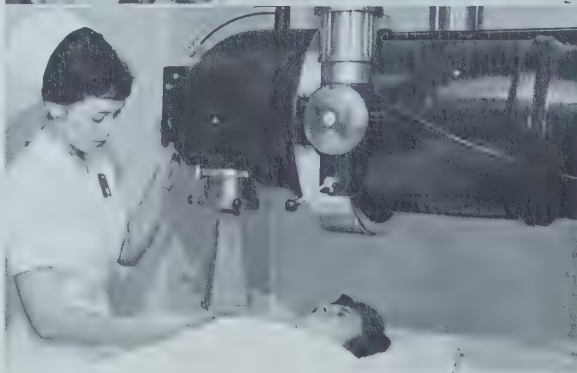


Above: Cardiac Catheterization. This shows the Cardiac team using the Picker Image Amplifier and Intensifier with attached camera for Cine Angiography, Multi-Purpose Electronic Recorder and Control Box for Oxygen Saturation Measurement.

Top right: Special Head Unit used for Cerebral Angiography.



Bottom right: 270 KV Deep Therapy Unit. This may be used for the treatment of benign or malignant conditions.





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H. Stefanyk

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L. Sanesi

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M. B. McWilliam

C. R. Ridgway

M. Sanderson

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A. Patrick

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G. L. Oliver

M. M. Starko

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Junior

Assistant Resident

P. B. Cerezo

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Assistant Resident

B. R. Bai

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Assistant Resident

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Junior

Assistant Resident

F. C. Gutierrez

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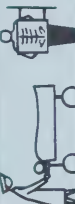
M. E. Sodomsy

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A. R. Stewart

C. Valle-Cavero

A TYPICAL DAY IN THE HOSPITAL
AVERAGE DAILY OCCUPANCY — 958 PATIENTS

6	DELIVERIES		PROVINCIAL LABORATORY TESTS (UNITS)	1,764
166	X-RAY EXAMINATIONS		HOSPITAL LABORATORY TESTS (UNITS)	2,882
577	REHABILITATION TREATMENTS		BLOOD TRANSFUSIONS	21
80	EMERGENCY PATIENTS		X-RAY FILMS	532
570	PHARMACY SERVICES		ANAESTHETICS	38
33,370	CU. FT. OF WATER		MEALS SERVED COST OF FOOD	4,203 \$1,279
422,000	LBS. OF STEAM		ELECTRIC KW HOURS	20,890
45	OPERATIONS		CENTRAL SUPPLY SERVICES	5,679
1,458 EMPLOYEES	TOTAL PERSONNEL 2,105		LBS. OF LAUNDRY PROCESSED	16,278
478 STUDENTS	UNIVERSITY OF ALBERTA HOSPITAL			497 OUT-PATIENT VISITS
169 MEDICAL STAFF	60 ADMISSIONS		59 DISCHARGES	

MEDICAL SUPERINTENDENT'S REPORT

Dr. J. D. Wallace,
Executive Director,
University Hospital,
Edmonton, Alberta.

Sir:

It is with pleasure that I submit the annual report of professional activities at the University Hospital during the year 1961.

Although a number of problems presented themselves, it was generally a year of satisfactory progress. The occupancy in the main hospital reached an all-time high of 90.4% but the total number of patient days decreased by 6,631 to 349,818 due to a temporary closure of beds for renovations. The traditional decrease in patient occupancy during the summer months no longer occurs, although the number of graduate nurses available continues to drop each summer due to vacations and resignations. In 1961 this caused a serious shortage of nurses from June to September, which was felt most acutely in the paediatric and psychiatric units and in the Operating Room. In the last, it necessitated a reduction in the number of theatres open for use with a resulting delay in admission of patients to the hospital and to the Operating Room and an increase in average length of patient stay. The nursing establishment in the Operating Room has been increased in 1962 and it is hoped that this will prevent such an acute problem arising again, otherwise further corrective action will be required.

Almost all services contributed to the total increase in hospital activities in 1961. This was most marked in the Department of Radiology where the increase in workload was over 20% and in the Department of Clinical Laboratories where it was 8%.

In its first full year of operation on the hospital campus, there were about 25,000 patient visits to the organized out-patient clinics. There had been some anxiety lest the move away from the downtown clinic, coupled with the new provincial welfare legislation, might have resulted in a decreased attendance at the Out-Patient Department with deleterious effects on both undergraduate and graduate teaching. It was gratifying to find that this has not occurred.

During 1961 the renovation of the 1912 building was completed and all six floors were opened for patient use. It is hoped that the renovation of the 1929 building will be completed by the summer of 1962. Following this, the obstetrical service will move to its enlarged quarters on the sixth floor and a number of other services will move to their permanent locations.

The annual staff blood donor clinic was held in January and registered 400 donors. Although this constituted a good response, it is hoped that by permitting student nurses to participate and by better advertising, this figure will be considerably improved in 1962.

The difficulty in obtaining sufficient blood to meet the increasing demand had become marked in 1961 and in order to use the blood available more effectively, a blood conservation program was inaugurated and discussions were commenced which, it is hoped, will lead to the establishment of a cross-matching service in the hospital.

Disaster Plan

The Canadian Council on Hospital Accreditation strongly recommends that each hospital have an active disaster plan prepared to handle both natural and nuclear disasters of varying magnitudes. During 1961, the development of our disaster plan was initiated and it is hoped that it will be completed and have a practice test in 1962.

Women's Auxiliary

As always, volunteers working under the auspices of the Women's Auxiliary have been very active in many areas of the hospital and I would like to express to them our appreciation for their excellent and very welcome work.

A new field of activity which they have entered is that of photography of the newborn. This not only brings pleasure to the new parents, and revenue to the Women's Auxiliary, but also supplies the hospital records with identification photographs of all newborn infants.

Hospital Chaplain

In the summer our hospital chaplain, Reverend Frank Jennings, was taken ill with a recurrence of a chronic illness and was forced to spend a large part of the year away from work. I report, with regret, that his illness has since compelled his resignation. During his short stay with us, he had ably demonstrated the many ways in which a chaplain can help both patients and staff.

Medical Staff

The various committees of the medical staff have been actively engaged in 1961 in maintaining the standard of patient care in the hospital at a very high level.

During the year, the following physicians were admitted to the medical staff:

I. D. Hendin, B.Sc., M.D. (Manitoba), Spec. Cert. Diag. Rad. R.C.P.S. (C), Dipl. Amer. Bd. Rad.—Radiology.

R. G. Townsend, B.Sc., (Sask.), M.D., C.M., (McGill), Spec. Cert. Orth. Surg. R.C.P.S. (C)—Orthopaedic Surgery.

B. J. Wood, M.D., (Manitoba), Spec. Cert. Paed. and Diag. Rad. R.C.P.S. (C)—Radiology.

A number of distinguished visitors from this continent and overseas visited the hospital and the opportunity was taken to enable them to meet and address the medical staff.

Education and Research

The hospital has continued to be very active in the fields of undergraduate and graduate medical education. In 1961 there were 90 Residents and Interns on the hospital staff, most of them engaged in full graduate training programs leading to specialty qualifications.

There were also 15 medical students 'living in' as part of their 4th undergraduate year.

Most clinical departments continued their research activities and the results of a number of projects have been reported in articles published in the medical press and presented at scientific meetings.

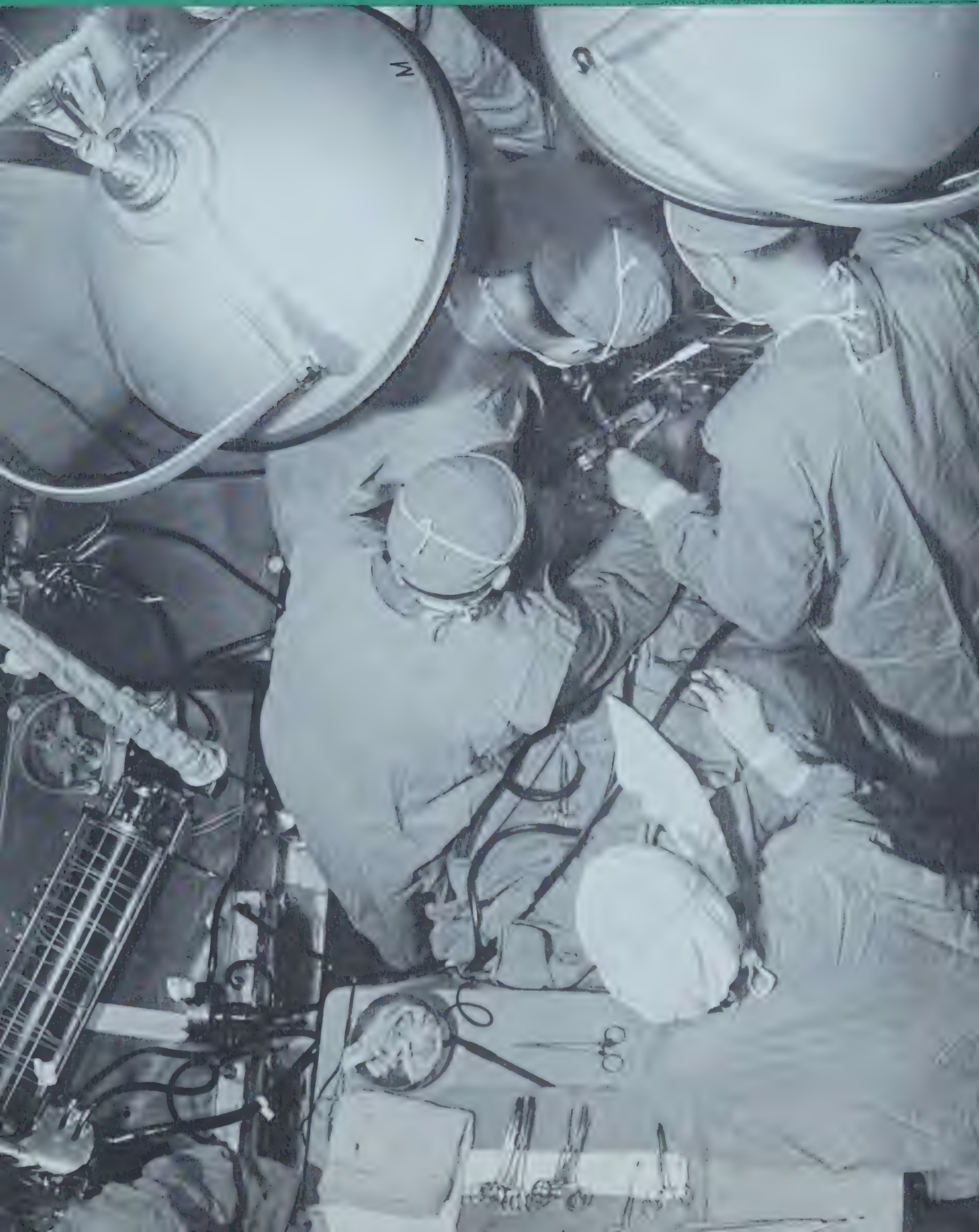
I would like to take this opportunity to express my personal appreciation to the Hospital Board, to you, and to Mr. Adshead, who resigned during 1961, and also to Mr. Sherwood, Miss Clark and the other members of the medical, nursing and administrative staff whose help and co-operation were of great help to me in carrying out my responsibilities during the year.

It is not practicable to indicate all the many activities which have taken place in each department during the year in a moderate sized annual report. For this reason only the highlights of each department's activities are outlined below.

Yours sincerely,

B. SNELL, M.R.C.P., D.P.H.,
Medical Superintendent.

HIGHLIGHTS OF DEPARTMENTAL ACTIVITIES



MEDICINE



Director
D. R. WILSON, M.D.

During the year 4951 patients were treated by the Department of Medicine, an increase of 138 over the previous year. Beds and special treatment facilities are still a problem and the department looks forward to the better care that can be provided when the renovation program is completed.

The Division of Endocrinology and Metabolism has increased its activities. In collaboration with Urology the operation of the artificial kidney has become of increasing value in both treatment and clinical research. New techniques and increasing studies have been carried on in the fields of kidney function, thyroid disease and steroid chemistry.

The work load of the Division of Cardiology continues to increase and a formal training program for technicians in the field has been introduced.

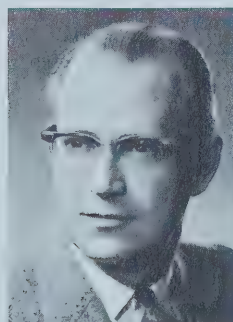
The Division of Neurology is continuing its long-term studies in the field of muscular dystrophy.

The Inhalation Therapy Section is dealing with increasing numbers of problems, and provides various types of therapy to between two hundred and three hundred patients a month.

The living-in policy for undergraduate medical students has been successful from both the student and staff viewpoints, and the increasing utilization of the Out-Patient Department as a teaching area has been an encouraging sign of improvement.

There has been an increase in the number and quality of applicants for graduate training which has been paralleled by an increasing quality of patient care on the part of the resident staff as a whole.

SURGERY



Director
R. A. MACBETH, M.D.

Admissions to the various Divisions of the Department of Surgery numbered 8,621 during the year, an increase of 57 over the previous year.

<u>Admissions</u>	<u>1961</u>	<u>1960</u>	<u>Comparison</u>
General Surgery	3401	3520	Down 119
E. E. N. & T.	1700	1712	Down 12
Genito-Urinary	1072	972	Up 100
Orthopaedic	1796	1778	Up 18
Neuro-Surgery	652	582	Up 70
Totals	8621	8564	Up 57

A total of 11,345 operations were performed during 1961. While this was a decrease of 52 from the previous year, there was an increase of 7.5% to 12,538 in the hours of use of operating rooms, indicating a greater number of complicated and time-consuming procedures.

<u>Operations</u>	<u>1961</u>	<u>1960</u>	<u>Comparison</u>
Major	4745	4933	Down 188
Minor	4473	4345	Up 128
Genito-Urinary	2127	2119	Up 8
Totals	11345	11397	Down 52

The Division of Orthopaedic Surgery under the direction of Dr. O. Rostrup recorded 1796 admissions and performed 813 major and 560 minor operations. The Hand Unit directed by Dr. G. L. Wilson has been able to offer an ever-increasing service to unfortunate persons with functional disabilities of the hand and arm.

The Division of Neuro-Surgery under Dr. G. K. Morton admitted 652 patients and carried out 374 major and 107 minor procedures, an increase of 9% over 1960. In co-operation with Dr. H. F. W. Pribram of Radiology, there has been a great increase in the use and effectiveness of neuro-radiological procedures—219 pneumoencephalograms, 20 ventriculograms, and 400 cerebral arteriograms have been done in addition to the 276 myelograms carried out by members of the department.

The Division of Urology directed by Dr. J. O. Metcalfe increased its activity by 5% to a total of 4070 services. Forty-five differential renal function tests were done in the investigation of hypertension and the renal dialysis team carried out 13 dialyses on 10 patients. Treatment on the artificial kidney saved 50% of the 8 cases treated in this manner during the year.

The Cardio-pulmonary Division under the direction of Dr. J. C. Callaghan carried out a total of 1215 procedures, including 91 patients subjected to total cardio-pulmonary by-pass; an increase of 44% in this procedure over the previous year. More complicated operations on the heart are now being done and there was a general increase in interest and activity in many other cardio-vascular surgical procedures. The Peripheral Vascular Clinic supervised by Dr. H. T. G. Williams saw 96 new patients on referral, handled 278 return visits, and continued its clinical study of the use of alphatocopherol.

The Division of General Surgery directed by Dr. R. A. Macbeth noted a marked increase in work in the international program to study the results of chemotherapy in cancer. Under Drs. C. M. Couves and A. B. McCarten 226 cases of stomach cancer and 95 cases of breast cancer were studied, and 349 cytological studies were done on peritoneal washings. This program is producing encouraging results and is continuing at an ever-increasing pace.

The Division of Ophthalmology under Dr. J. W. Duggan showed an increase of 14% in surgical procedures. Better bed utilization and more efficient service to patients requiring surgery for squint and for removal of tonsils and adenoids was arranged for this division, and for E. N. T. under Dr. K. A. C. Clarke, through advanced booking procedures for beds and operating room time.

Referral clinics continued to provide service to patients from many parts of Alberta. The Glaucoma Diagnostic Clinic, carried out by Dr. T. A. S. Boyd, saw 120 new patients and recorded 2320 patient visits. The Orthoptic Clinic carried out 773 general analyses and 376 visual field analyses; and 1001 refractions were done on out-patients—an increase of 100% over 1960.

The Surgical Infection Committee, composed of Dr. T. S. Wilson and Dr. R. D. Stuart, continued its intensive campaign which has resulted in a consistently low rate of surgical infections.

Increased educational experience in Paediatric Orthopaedics has been provided to members of the resident staff through the co-operation of Dr. Gordon Townsend and the Alberta Children's Hospital in Calgary in an affiliation program with this hospital. This arrangement has been advantageous to both hospitals.

The academic preparation of members of the resident staff has been improved by tri-weekly seminars held by various members of the staff of the Department of Surgery.



OBSTETRICS AND GYNAECOLOGY



Director
J. ROSS VANT, M.D.

For the past twenty years Dr. J. Ross Vant has been a stimulating force to this Department as its Director. He has set an example of good patient care that has been difficult for his many students to match, and through his leadership in provincial and national organizations, he has stimulated a sense of responsibility into physicians, nurses, patients, and hospitals that has been largely responsible for the favorable maternal and infant mortality and morbidity statistics we enjoy in Alberta today. He has seen, and has been largely responsible for, the development of this department from a 22-bed unit in the old frame and stucco building which now houses the Cancer Clinic, to a modern and active service that will soon occupy most of the renovated sixth floor of this building. He has developed an obstetrical and gynaecological service of which this hospital and the University can be justifiably proud.

During 1962 Dr. Vant relinquishes the administrative reins of the department to Dr. William Paul from Toronto Western Hospital. Fortunately he will continue his active practice in the hospital and we will continue to enjoy and appreciate his active participation in patient care, teaching, and clinical research.

His final annual report, which is a historical and statistical masterpiece, is available on application to the Medical Superintendent.

During 1961 there were 4199 admissions to this department, an increase of 86 over the previous year. Of these, 2490 were obstetrical and 1709 gynaecological. There were 2211 deliveries, of which 2103 were pelvic and 108 (or just under 5%) caesarean. The Out-patient Department provided 322 admissions, or about 14% of the total. There were 30 sets of twins born.

There was one maternal mortality. This occurred as the result of a prolonged post-partum haemorrhage resulting from an acute aleukemic leukaemia which was only definitely diagnosed at post mortem. The morbidity rate was 4%, composed mainly of mild urinary infections.

A more rapid and complete convalescence was assured to the mothers through increased interest in pre-natal classes and improved attendance at post-partum exercise classes provided by this department and the Department of Physical Medicine.

There was a continuing decrease in infant mortality to 30 per thousand. If immature infants are deducted from the total, the mortality rate for full-term babies is 21 per thousand. This indicates a continuing high mortality rate for premature infants in spite of the excellent facilities available for their care, and a continuing study of methods to prolong intra-uterine existence is under way.

There were 33 neonatal infections during the year, most of them mild, and 394 mothers showed positive nasal swabs for staphylococcus aureus, which demonstrates the need for continuing the routine program of checking and observation.

The treatment of babies needing exchange transfusions for haemolytic disease and hyperbilirubinaemia has been carried out in co-operation with the Department of Paediatrics, with continually improving results.

The department looks forward with anticipation to its move into the modern facilities being provided by the renovation program.



*This Paediatric patient's
education has reached
advanced stages*

During 1961 this department admitted 3006 patients and recorded an average stay of 11.6 days and an average bed occupancy of 79%. There were no serious problems with cross-infection and minor outbreaks of measles and chicken pox were quickly controlled.

The Out-patient Department recorded 2909 paediatric patient visits, saw 812 new patients, and was responsible for 246 admissions. Monthly checks indicate that some 400 children are seen in the Emergency Department, of which 50 are admitted to the wards.

A new special clinic for Chronic Respiratory Diseases in Children was started this year under Dr. G. E. Eddy, and the referral clinics for pre-school deafness and cleft palate continued in co-operation with the Departments of Surgery and Dentistry.

The efforts of volunteer workers have contributed much to the care of the children. In all, 596 volunteers have provided 2837 hours to the happiness of the children in the wards. The operation of the hospital's school has continued, and arrangements were made during 1961 to have it operated by the Edmonton School District, commencing in the fall of 1962.

The number of patients treated in this department rose to 1093 in 1961, an increase of 143 over the previous year. As well the number of patients seen in the Out-patient Department increased from 554 to 730. The therapy carried out has increased proportionally, and, as an example, 1478 electro-convulsive treatments were given during the year.

The unit for emotionally disturbed children, directed by Dr. A. N. McTaggart, cared for 74 in-patients and saw 235 new out-patients. The unit now provides continuous psychiatric service for both in-patients and out-patients.

An increasing use has been made of group therapy and the team approach with excellent results. Social service consultations have been carried out on 216 adults and 71 children, and psychologists administered tests to 134 patients.

Through use of a new observation room with one-way glass panels, improved teaching facilities have been provided for medical students, and the resident program has been greatly increased during the year.

PAEDIATRICS



Director
J. K. MARTIN, M.B.

PSYCHIATRY



Director
K. A. YONGE, M.D.



Patient Care and Clinical Research share the benefits of work in the Steroid Laboratory



Tender loving care still plays an important part in Paediatrics

PHYSICAL MEDICINE AND REHABILIT- ATION

This department has been described as the most complete physical medicine facility in any hospital in Canada. It continues to produce excellent results, and during 1961 there was a further increase of 10% in the number of patients treated and in the patient treatments given. The addition of two new research fellows, another social service worker, and a trained home economist to the staff during the year further expanded the capabilities of the department.

Physical Medicine is a relatively new specialty and many physicians are not yet aware of its proper place in patient care. The results being produced by this department are producing an increasing awareness among members of the profession and the public alike, and a steady increase in the number of referrals to members of the Rehabilitation staff has resulted.



Director
M. T. F. CARPENDALE
M.D.



*The Hubbard Tank and
Medical Electronics join
forces in the Rehabilitation
Department*



*Hands crippled by arthritis find new
usefulness in Occupational Therapy*



*Education continues during
the rehabilitation program*



Special equipment and skilled hands aid diagnosis in the Radiology Department

RADIOLOGY

The activity of the Department of Radiology increased by over 20% during 1961, as indicated below.

	<u>1961</u>	<u>1960</u>	<u>Comparison</u>
Radiographs (films) -----	132,900	106,850	Up 26,050
Radiographs (examinations) -----	41,514	36,131	Up 5,383
Fluoroscopies -----	4,355	4,100	Up 255
X-ray Therapy -----	1,104	----	----

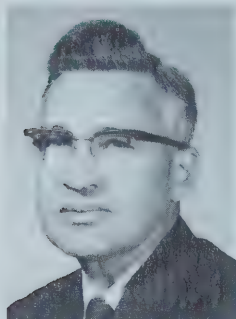
Special radiological procedures in neurological and cardio-vascular fields were further perfected and were used more actively. As well more use was made of the photographer and medical illustrator attached to this department.

The Department was approved by the University of Alberta for graduate training with degrees of M.Sc. in Radiation Biology—Clinical, Radiologic Physics and Health Physics being made available.



Director
H. E. DUGGAN, M.D.

ANAESTHESIA



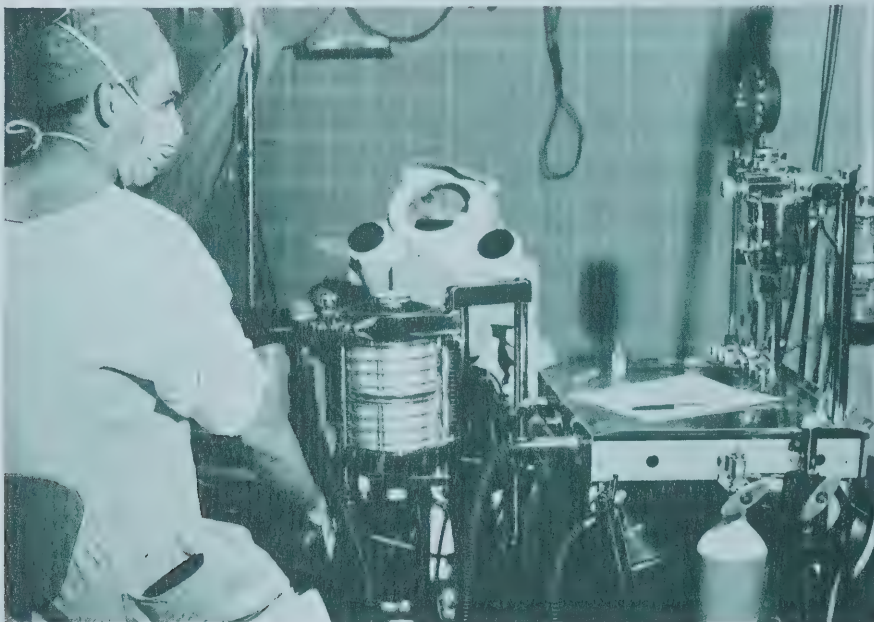
Director
E. A. GAIN, M.D.

The increase in the complexity of surgical procedures carried out has resulted in an increased work load and responsibility for this department. As well, the number of anaesthetics administered during 1961 increased by over 5%, as follows:

	1961	1960
Elective -----	8131	7778
Emergent -----	1391	1232

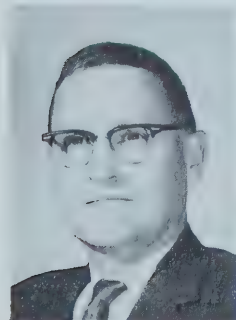
The average duration of anaesthesia increased from 71.0 minutes to 80.2 minutes, or 12%.

Greater patient safety has been assured through the authorization of continuous operation of the Recovery Room, and as well by the rapid change to new and non-explosive anaesthetic agents.



Anaesthetist during surgery

CLINICAL LABORATORY SERVICES



Director
R. E. BELL, M.D.

A considerable increase in the volume of work performed by this department has been made possible by greater use of autoanalysis methods and the integration of ultra-micro procedures into the regular laboratory program. A constant quality control program now assures greater accuracy in results.

During 1961 this department carried out 313,626 examinations, as compared with 290,086 in the previous year. As well, 355 B.M.R.'s and 6,643 E.C.G.'s were done.

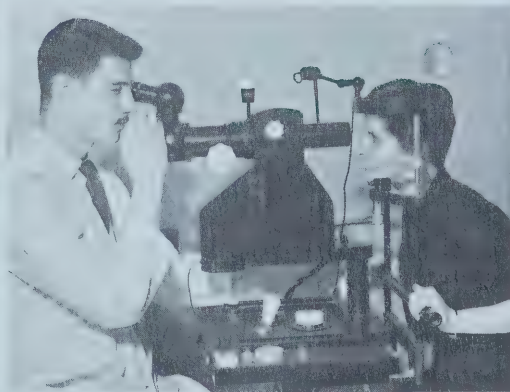
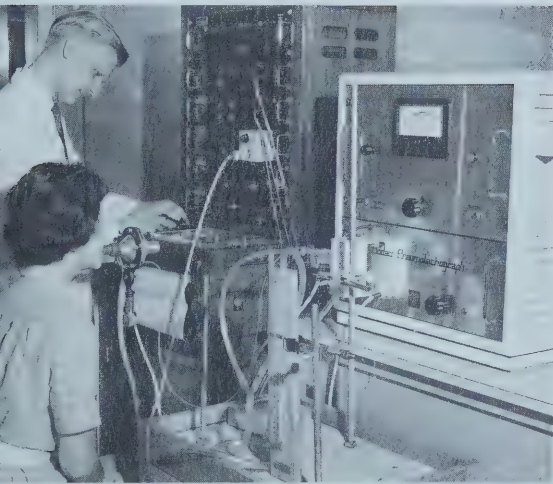
New electrophoresis procedures have been instituted as an aid to diagnosis and treatment through demonstration of protein abnormalities in plasma fluids. The laboratory was established as the provincial control centre for the treatment of patients with phenylketonuria and a screening process through which such patients might be detected has been instituted.

Education continues as an important function of this department, although some difficulty has been experienced in obtaining sufficient numbers of qualified applicants for laboratory technology. Graduate study towards specialist certification was provided to five students.

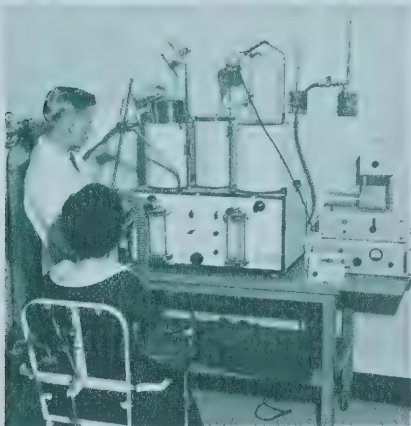
Besides its own basic research program, the Clinical Laboratory has co-operated with other departments in their projects. A great deal of work has been done in the provision of control information for the cancer chemotherapy program.

*Atomic energy harnessed for
man's benefit in the Radio-active
Isotope Laboratory*

*Medical electronics aids
in the assessment of
Pulmonary Function*



*A retinal camera
records the inner eye
in the Division of
Ophthalmology*



*Intricate equipment aids in
diagnosis and treatment in
the Pulmonary Function Unit*



*The examination of blood
lends itself to automation
in the Clinical Laboratories
Department*

PATHOLOGY



Director
J. W. MACGREGOR,
M.D.

As a result of the increasing activity in other departments in the hospital, Pathology has as well had an increase in its work load during 1961. This is reflected in the following statistics:

6679 surgical specimens reported on, of which 7.5% were malignant lesions.

256 provisions of immediate diagnosis during surgery through use of the frozen section unit.

523 autopsies performed for a creditable autopsy rate of 71.2%.

As well there has been an increase in the participation of this department in teaching and clinical research programs.

OUT-PATIENT AND EMERGENCY



Director
ADAM S. LITTLE, M.D.

These two services have more influence on public relations than any other services in a hospital. The public expects and deserves prompt and efficient attention in these areas of the hospital, and under the direction of Dr. Adam S. Little this is provided.

There was a total of 124,281 out-patient visits to the hospital during 1961. Of these, about 25,000 were made to the organized Out-Patient Department, and a more thorough investigative and treatment service is reflected in a 33% increase in the number of patients admitted to hospital through O.P.D. A better learning experience was provided to young doctors by simulating the conditions of private practice in the department, and this innovation was appreciated by the patients who were seen.

The Emergency Department provides efficient, around-the-clock service in spacious and well-equipped quarters. This has gained recognition in an increase in the number of patients seen in this area to 29,157 during 1961. Of these, about 10% required admission to hospital for further treatment.

DENTISTRY



Director
H. R. MacLEAN, D.D.S.

Because of the proximity of the Dental Clinic at the University of Alberta, this service is not large, but it is growing. Special facilities have been installed in the clinical services wing to facilitate dental work on severely-disabled persons, such as polio patients who must be treated on stretchers or in wheel chairs, often with special breathing assistance apparatus in operation. There was a total of 523 patient visits to this service during 1961.

There was, as well, an increase in the number of patients admitted to hospital for major dental surgery, and the department continues to work closely with the Department of Surgery in the treatment of complicated facio-maxillary injuries and in the repair of cleft lip and palate.

While there are many active committees in the hospital, the activities of this one are reported because of their great importance and their effect on patient care. The Special Services and Research Committee co-ordinates and assists in financing the clinical research activities in the hospital and the special services that are made available to patients in a medical teaching centre. As these services prove themselves to be of value in patient care they are transferred from the care of this Committee and become part of the regular service offered by the University of Alberta Hospital.

This Committee sees to it that funds received from many sources for the support of clinical research are properly used, and as well assures the hospital that they are fairly distributed to the many projects that deserve assistance. Gifts and bequests from friends of the hospital provide an increasing portion of the funds controlled by this Committee.

The work of this group is of such importance to the future of patient care that a section of the report is quoted below.

The work in diagnosis and treatment of heart disease, cardiac surgery and vascular surgery has been particularly outstanding. Ninety-four patients were operated on with cardiopulmonary by-pass. The replacement of diseased vessels with synthetics is being quite extensively used with remarkable results. Work has also been done in replacement of diseased valves of the heart with artificial valves and battery-operated pacemakers are being inserted into the chest in cases where normal regulation of the beat is lacking. All of the cases for open-heart operations still receive extensive diagnostic investigations prior to surgery and these have been followed up year by year with complete studies of their circulatory dynamics. The peripheral-vascular clinic continued special studies of patients referred with impaired circulation of the limbs, followed up with recommendations made with respect to treatment to the referring doctor.

In the pulmonary function unit, a wide range of diagnostic function studies are now available and their use makes much more precise definition of respiratory abnormalities possible. Treatment by inhalation therapy by the team under the direction of this unit has greatly improved the care of patients with respiratory disease.

A speech and hearing clinic for pre-school, deaf children and those with cleft palates, was started during the year by the Department of Paediatrics and the Division of Otorhinolaryngology. They will provide complete investigations of these children by specialists concerned, the speech therapists and social workers. The special diagnostic facilities which have been provided for audiometry will be used for this clinic. In the first few months of operation late in the year, nine patients were seen.

Genetic studies of a variety of diseases with inheritable characteristics were continued and the geneticist has set up tissue culture studies required in the detection of chromosome abnormalities. This is a rapidly-developing field with important clinical implications and research value.

Using a new, improved, disposable coil, artificial kidney, ten patients with renal failure have been treated. Special kidney function tests required to give an accurate measure of performance of each kidney have been set up in the Division of Urology and Metabolism. These are used in the diagnosis of renal disease and in selecting cases of hypertension who will benefit from surgical treatment.

In the glaucoma diagnostic clinic, 143 new out-patients were studied and follow-up studies were done on 53 more. The early diagnosis and treatment of this disease can prevent blindness in many of these patients, and through the research done in investigating, more may be learned about the cause of this disease.

SPECIAL SERVICES AND RESEARCH COMMITTEE



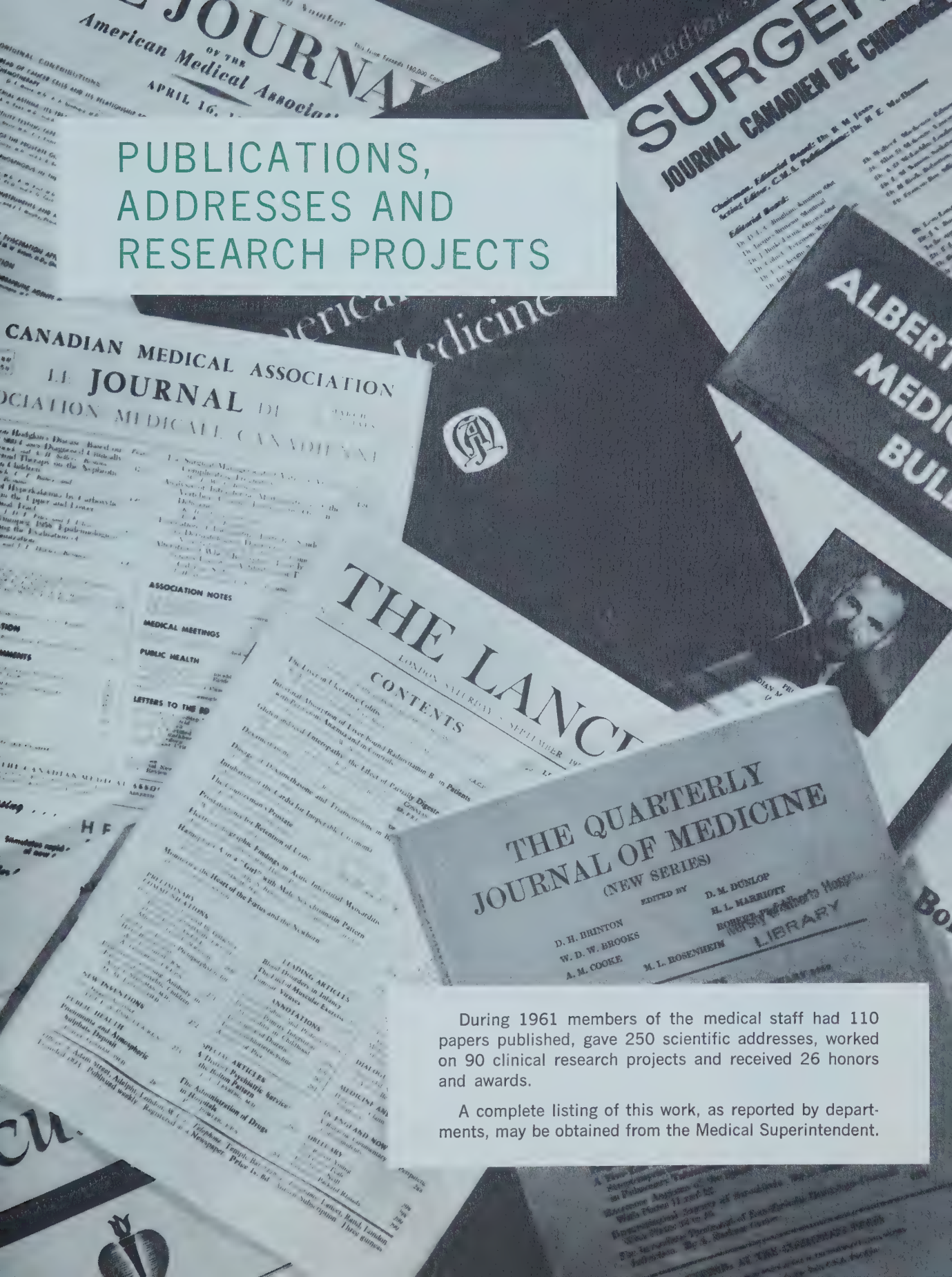
Chairman
W. C. MacKENZIE,
M.D.

In the radioisotope laboratory, in addition to the volume of routine diagnostic studies, a number of special techniques have been adopted and used in the investigation of problem cases, particularly anaemias and thyroid disease. Research studies on the radiation effects from isotopes has continued in the Department of Radiology and an extensive program of study of the radiation effects from diagnostic X-rays is continuing.

Many of these special units use complex electronic apparatus in their operation. This is requiring an increasing amount of electronic technical assistance. Recognizing this, and the great advances that have been made in the use of electronic apparatus in the diagnosis and treatment of disease, the committee has started the development of a medical electronics and engineering unit in the hospital. This is being planned to provide for the servicing and maintenance of all types of medical electronic apparatus used in the hospital, as well as to provide facilities and staff through which modifications and some design of new equipment can be done. Space is being prepared. One technician was employed in September. Additional staff will be added as required.

Special analyses have been provided in the laboratories for investigations of patients presenting with special diagnostic problems. Most of these analyses are not done elsewhere in the province. They have been made available, as far as possible, to other hospitals. Special immunological techniques, both in the studies of proteins and immunohaematology, are being used to an increasing degree.

PUBLICATIONS, ADDRESSES AND RESEARCH PROJECTS



During 1961 members of the medical staff had 110 papers published, gave 250 scientific addresses, worked on 90 clinical research projects and received 26 honors and awards.

A complete listing of this work, as reported by departments, may be obtained from the Medical Superintendent.

NURSING



Director of Nursing
MISS J. S. CLARK, R.N.

Nursing is the most important single department in the hospital. It provides the means by which the facilities of the hospital and the skills of the medical staff are combined to provide good patient care. The fact that the University of Alberta Hospital provides good nursing service and has an internationally recognized School of Nursing is due in no small measure to the Director of Nursing, Miss Jeanie S. Clark. This year she submits her last annual report for this hospital, and at the end of July 1962 she will leave for Calgary where she will become Director of Nursing at the new Foothills Provincial General Hospital. It is with sincere regret that we see her leave her own training school, but we are happy to know that Alberta's newest metropolitan hospital will be assured of an excellent nursing program, and that this hospital will have indirectly provided it.

Dr. J. D. Wallace,
Executive Director.

Sir:

I have pleasure in presenting herewith the annual report of the Department of Nursing for the year 1961. Again we can report a year of considerable activity.

The staff was represented by four members at the annual institute conducted by the School of Nursing, University of Alberta. This year the institute was on Mental Health and Mrs. Lyn McDonald of our staff participated as a group discussion leader.

The staff was also represented by five members at the annual meeting of the Alberta Association of Registered Nurses which was held in Banff. Miss Thompson and I concluded our terms of office as executive members of the Alberta Association of Registered Nurses at this annual meeting, though Miss Thompson continues as a member of the Board of Nurse Examiners.

Miss Thompson attended two meetings in Ottawa of a special committee on Nursing Education of the Canadian Nurses' Association and I attended one meeting in Ottawa of a special committee on Nursing Assistants of the Canadian Nurses' Association.

The whole field of nursing is receiving considerable attention and study at the present time. The Provincial Nursing Care Survey committee, of which I was a member, has held six meetings during 1961 and submitted a final report to the Minister of Health during the Fall. One of the Spring meetings coincided with a two-day Ministers' Conference on nursing. As a result of this conference, a committee under the chairmanship of Dr. E. P. Scarlett was set up to study Nursing Education and the supply and preparation of health personnel in Alberta. As a member of the advisory committee to this group, I have attended two meetings.

At the national level, other nursing studies have been undertaken. During September, Miss Glenna Rowsell and Miss Helen Mussallem of the Canadian Nurses' Association conducted a two-day workshop in Edmonton on the Self Improvement Programme for Schools of Nursing. This was a follow-up to the pilot project on evaluation conducted by the Canadian Nurses' Association in twenty-five Schools of Nursing across Canada. Five members of our staff participated in the workshop and the material is being applied now to our own situation. During October, Miss Lillian Campion, also of the Canadian Nurses' Association, met with representatives of Nursing Service staffs in this region. She is interested in seeing developed a method by which quality of nursing care can be assessed.

Directors of Schools of Nursing in Alberta held a fruitful meeting in April at Lamont. However, because of the number of other meetings being held during the Fall, the regular semi-annual meeting scheduled for this time was cancelled.

We have enjoyed the visits of two nurses who came to us at the request of the Canadian Nurses' Association. Miss Phyllis Robbie, clinical instructor at the Royal Hospital for Sick Children, Edinburgh, Scotland spent two weeks with us in January. Miss Violet King, Matron of Whiteabbey Hospital, Newtownabbey, Northern Ireland spent a



*Associate Director —
Nursing Service*
MISS M. J. LEES, R.N.



*Associate Director —
Nursing Education*
MISS M. R. THOMPSON, R.N.

week with us at the beginning of November. We have also had visits from Miss C. Swinton, Regional Director of the Victorian Order of Nurses, Miss Evelyn Pepper, Nurse Consultant for Civil Defense, Ottawa and Miss Bocock, Principal Tutor, Royal Free Hospital, London, England.

It was with real regret that we learned of Dr. Rodman's retirement as Medical Director of Health Service at the beginning of July. A very harmonious working relationship existed between Dr. Rodman and the Department of Nursing staff, and Dr. Rodman was very well liked as their family physician by our student group. Dr. E. G. Kidd was a very happy choice as Dr. Rodman's successor.

Nursing Officers

The presentation of Long Service Awards during February held special significance for the Nursing Department. Miss M. J. Lees, Associate Director of Nursing Service, became the first member of our staff who is a graduate of the University of Alberta Hospital, to receive the twenty-five year pin. Miss Lees, Miss E. Greig and Mrs. J. McNeil became eligible for the extra four weeks vacation and each enjoyed all or part of it during 1961. Two of our retired staff, Mrs. E. O. Porritt and Miss C. Mackay returned to participate in this special event.

Three of the nursing officers were married during the year and continued in their positions following marriage. There were eleven new nursing officers appointed during the year, four of whom had had previous nursing officer appointments with us. We regret to report that one of our appointments was to cover for a nursing officer who will have a prolonged absence due to illness. Two clinical instructors held temporary appointments to provide coverage during the vacation season. For the first time in September, we appointed two instructors on a part-time basis to fill one position and this arrangement has worked reasonably well.

Nursing Service

The Nursing Service staff has had a busy year in its endeavours to provide continuous satisfactory care for patients. The complement of graduate nurses during the Spring and Fall months was up to strength but during the summer there was a sharp drop reaching about thirty-three percent at one point. This seemed to be the experience of many hospitals across Canada. Where there is not a corresponding levelling in patient occupancy, it is very difficult to maintain a satisfactory quality of service with a reduced staff.

In 1961 the overall nursing establishment was set as follows:

Nursing Officers	45
Charge Nurses	49
Assistant Charge Nurses	27
General Staff Nurses:	
Full-time	223
Part-time	9
Certified Nursing Aides	98
Nursing Aide Trainees'	20
Operating Room Assistants	10
Ward Clerks:	
Full-time	23
Part-time	2
Ward Aides	117
Orderlies	
Full-time	85
Part-time	2

Recruitment into the categories other than nursing presented no major problems. However staff turnover necessitates constant orientation and in-service programmes. One would wonder whether there should not be a special employee or employees conducting such programmes for the hospital as a whole. They are time consuming and repetitive when the responsibility of each department.



Week by week and month by month the student nurse's course is carefully planned in advance

The history of U.A.H. student nurse's uniform is displayed on dolls in the Residence Library



The establishments for the Operating Rooms and Out-Patient Department were increased during the year because of increased work load, and modified in the Emotionally Disturbed Children's Unit. During June it was possible to move four nursing units located in the 1929 Wing into the recently renovated 1912 Wing. Two of these new areas had been former nursing units, one area had formerly been the Operating Suite and one floor had been added to the building during alterations. Rewiring and renovated plumbing have made these areas more comfortable and attractive for the patients and more convenient for the staff. We are anticipating similar advantages when work on the 1929 Wing is completed by the Spring of 1962.

Continuing educational opportunities have been afforded as follows:

Miss M. Staves, Assistant Supervisor in the Operating Rooms attended a workshop in Operating Room nursing in Seattle during September.

Miss J. McNeice, Supervisor in the Central Supply Department, attended a Central Supply Institute in Erie, Pennsylvania in May.

Two senior nurses from the Municipal Hospital, Lethbridge, were permitted to undertake an eight-week post-basic course in Psychiatric Nursing during the summer, which was required by the University of Alberta as a prerequisite for the degree course in nursing.

Two European trained nurses were given the opportunity to undertake a twelve-week programme in Obstetrical Nursing as required by the Alberta Association of Registered Nurses as a prerequisite for registration.

Two of our charge nurses have registered in the correspondence course in Nursing Unit Administration, with hospital financial support, and Miss L. McCallum, Administrative Supervisor, is a tutor for this course.

During the period August to November the third in-service programme was offered to certified nursing aides who wished to prepare for work as Operating Room Assistants. Five undertook the programme and four successfully completed it. An in-service programme was offered during the Spring to new orderlies who had joined our staff, and to orderlies on the staff at the Veterans' Convalescent Home. The Orderly Supervisor and one of his assistants are active in an organization of hospital orderlies in Edmonton which is endeavouring to secure better preparation for this group of hospital employees.

We have again cooperated with the School of Nursing, University of Alberta, in providing clinical facilities for students registered in the programmes in Advanced Practical Obstetrics and in Care of the Premature Infant. There were four students in the Spring course and four students in the Fall course in Advanced Practical Obstetrics. There were five students in each of two courses in the Care of the Premature. It is of interest to note in passing that the Central Midwives Board of England and Wales sent Miss Mary Williams, Matron of Queen Charlotte's Maternity Hospital, London, England to evaluate the Advanced Practical Obstetrics course during October. Following Miss

Williams' visit and report, it will now be possible for graduates of the Advanced Practical Obstetrics course to obtain registration in Part One, Midwifery, by reciprocity with the Central Midwives Board of England and Wales.

We continue to offer ten weeks of clinical experience to nursing aide trainees from the Edmonton School for Nursing Aides. The number of trainees we have at any one time is approximately twenty. Occasionally throughout the year the number has been less and during the summer it increased to twenty-four. Permission was granted whereby trainees from the Edmonton School now obtain their introduction to the clinical situation in South Pavilion before proceeding on blocks of clinical experience at affiliating hospitals. Currently we are making alternate arrangements for accommodation for this group during their affiliation with us as the space we have rented for this purpose in the Nurses' Residence, Misericordia Hospital, will not be available after April 1, 1962.

During February, Miss Marjorie Russell, Nursing Consultant with the Department of Veterans Affairs visited the nursing units in the South Pavilion and Colonel Mewburn Pavilion. Miss Russell was in Edmonton to represent her department at the ceremony referred to elsewhere in this report to honor the late Miss Agnes M. J. Macleod.

In June, a new style of uniform was adopted by the ward aide staff to conform with those of other service departments. Since the use of the old style of uniform was also permitted until the beginning of 1962, the effect of this change is not fully apparent. However the general effect is smart and pleasing.

The following articles, written by staff or student nurses, have appeared in the Canadian Nurse Journal during 1961:

Montalbetti, Joanne Marie—"Benign Prostatic Hypertrophy"
February, 1961, pages 160-162

Templeton, Joan M.—"A Hospital Eye Ward"
March, 1961, pages 260-262

Allen, Judith H.—"Pregnancy and Muscular Dystrophy"
December, 1961, pages 1124-1128

The March issue was essentially devoted to Ophthalmology and articles were contributed by Doctors Marshall, Duggan, Boyd, Hassard and Patrick of our medical staff. Miss Allen's article received an honourable mention award in the Macmillan Case Study competition across Canada.

We would like to acknowledge the fine contribution which the volunteers have provided to our nursing service. These workers are ably directed by a coordinator of volunteers, employed by the Women's Auxiliary.

Nursing Education

Two classes were admitted to the School which included forty-one students in January and ninety-seven students in September. In addition, four students from the Provincial Mental Hospital, Ponoka, were accepted for a two-year affiliation in general nursing. We continue to accept two to three students from the Archer Memorial Hospital, Lamont, every eight weeks for an affiliation in paediatric nursing, and four students every two weeks from the Royal Alexandra Hospital for an affiliation in out-patient nursing.

We have had a sufficient number of applicants to the School and had to set up waiting lists for both classes in 1961. We are now the only School of Nursing in the province accepting a Spring class. In considering this question from all points, we have concluded that handling the number of students that this School can accommodate in two classes is more desirable than admitting one very large class a year. The registration in the School exclusive of affiliating students, at December 31, 1961, was three hundred and fifty-six, of whom sixty-three were registered in the five year degree programme.

Graduation Exercises were held on March 6 for twenty-four members of Class January, 1961 and two affiliating students from the Provincial Mental Hospital. We regret to report that two members of this class were unsuccessful in conjoint examinations. Graduation Exercises were held on October 16 for eighty-one members of Class, September, 1961. On this occasion the number of graduates of the School reached fifteen



Balanced traction is demonstrated by the Orthopaedic instructor

hundred and sixty-nine. By the end of 1961, plans were well advanced for the first joint graduation exercises to be held on April 6, 1962 for dietetic internes, laboratory technicians, X-ray technicians and members of the nursing class of January, 1962.

During the year there were twenty-six withdrawals from the School, six reinstatements into the School and two transfers within classes in the School. Marriage and unhappiness with career choice were the main reasons for withdrawals.

We continue to be aware of the need for financial assistance of a number of the students. The Revolving Loan Fund of one thousand dollars was well used during 1961. At one point the balance was reduced to forty dollars. During the year we gratefully received the gift of the Mary Pauline and Clara Jean Shaw Memorial Fund. The principle of this gift has been invested to yield an annual income of approximately six hundred dollars a year which is to be used for the welfare of students or graduate nurses. The following is a summary of financial assistance provided during the year:

Students' Assistance Act—twenty-two students received grants which do not exceed a maximum of one hundred dollars per year.

Revolving Loan Fund—twenty students received interest-free loans, totalling eight hundred and seventy dollars.

Shaw Memorial Fund—four students received bursaries to a total of one hundred and sixty-five dollars.

Blue Cross Plan Bursaries—Six students received bursaries to a total of three hundred dollars.

United Commercial Travellers' Bursaries—Five students received bursaries to a total of two hundred and fifty dollars.



A friendly smile greets patients and visitors alike at this nursing station

The move of the hospital laundry to a new building where hand ironing was to be eliminated necessitated formulating a change in style of cap. In consultation with alumnae and students, a flat cap was designed which maintained many of the features of the former cap. This was introduced in June and has received a favorable reception. The woven monogrammed pink uniform material is no longer available from Scotland. In considering a change in uniform, the opportunity to introduce a one-piece white style was considered but was overwhelmingly rejected by alumnae and students. For a period of one year a pink striped material will be used. A printed pink monogrammed material is on order for the Fall of 1962.

Two curriculum committees are active within the Nursing Education staff. There have been no major changes in the programme this past year. Some modification of field visits from the Out-Patient Department have been made. It was also necessary to rearrange our affiliations with the Aberhart Memorial Sanatorium so that part of our students now go for a four-week classroom and clinical experience and the remainder go for a one-week classroom experience only.

We have provided concurrent field work experience for fourteen students in Teaching and Supervision from the University of Alberta during the Spring term. We have also provided terminal field work experience for four weeks for four students and for ten days for one student in the Teaching and Supervision course at the University of Saskatchewan.

During Varsity Guest weekend we held our annual Open House and received approximately eleven hundred visitors. We provided staff and student speakers for Career Day events at three city High Schools.

We were happy to have a suite of offices added to the Department at the end of the year. This will enable us to set up an Admissions office and also to centralize records of applicants to the School and graduates of the School. With the addition of a secretary in this office at the beginning of 1962, our clerical and stenographic work will be reassigned more effectively.

There have been many pleasant social affairs organized for the students and by the students. The Graduation Banquet and Dance, Capping Teas, Frosh Dance and Engineers' Dance and the S.N.A.A. Talent Show are annual affairs. The choir concert and the exchange weekend with the University of Saskatchewan School of Nursing were new and successful activities.

Nursing Advisory Board

Full meetings of the Board were held on February 15 and on September 13. At the February meeting we welcomed as new members, Mr. L. R. Adshead, Dr. B. Snell and Dr. R. A. Macbeth. Upon his resignation as Administrator, Mr. Adshead left the membership of the Nursing Advisory Board and was succeeded by Dr. J. D. Wallace, Executive Director.

The main business of the Board has been the review of those eligible to be graduated from the School and the selection of the annual prize winners. Consideration has also been given to alterations in the setup of the library to make it more effectual and to minimize loss of books.

The Executive has held five meetings during the year and its main business has been promotions at the end of each term and the selection of bursary recipients.

Nurses' Residence

One of the highlights of the year was the Alumnae meeting held on February 7. On this occasion, the following items were received by Administration in tribute to the late Agnes M. J. Macleod.

An illuminated scroll, memorial album, case of medals and oil painting to be placed in the Macleod Memorial Library, and presented by the nursing staffs of the D.V.A. hospitals across Canada.

An inscribed Bible to be placed in the hospital chapel and presented by the Alumnae Association.

A photograph mounted in walnut plaque to be placed at the entrance to the Macleod Library and presented by the Macleod Club.

On this occasion it was announced that the Soroptomist Club of Ottawa would make a memorial presentation at a later date.

The changes which took place in the School uniform during the year prompted the preparation of an exhibit of uniforms since the School commenced. Miss W. Nicol and Miss M. Scott who are retired hospital employees very kindly undertook the task. The display is housed in showcases in the Reading Room and has aroused a great deal of interest.

During November, Mrs. Julia McNeil retired. Mrs. McNeil had been assistant residence supervisor on night duty since this building opened in 1947, and an employee of the hospital for over thirty years. Functions arranged by the Administration, by Macleod Club and by the Alumnae marked her departure from staff.

Reunions of classes which were graduated five years ago, ten years ago and twenty years ago were held during July and August. In each instance, a luncheon and tour of the hospital and a tea and tour of the residence was included in the activities.

New furniture has been provided in four lounges in the older part of the building and in the residence supervisor's office. The addition of tinted government photographs and of lamps in all lounges has added to the comfort of the building.

Conclusion

Much of the work of the Department of Nursing is done by committees. To those who have acted as chairmen, and members of the committees on Nursing Procedures, Nursing Forms, Special Procedures and Policy, we say a sincere thank you. This work is time-consuming and sometimes unheralded but it is very important to the smooth-functioning of the department.

Communications within a department as large as this is also one of our problems. Through weekly, biweekly and monthly meetings we do attempt to keep staff informed. It would seem that a regular staff paper would fill a real need here.

Our work has been made easier and more pleasant through the cooperation of the members of administration, directors and staffs of other departments, members of the medical staff and the loyalty and support of the members of the department of nursing staff. To each and every one we would like to express our appreciation.

Respectfully submitted,

JEANIE S. CLARK,

Director of Nursing.

DEPARTMENT OF PHARMACY



MR. W. W. MADAY

The Department of Pharmacy has continued to improve the services available to patients and to other departments in the hospital. Costs have been kept in line by the use of the "tender system" and by the activity of the Pharmacy-Therapeutic Committee. The Out-Patient Pharmacy in the Clinical Services Wing has completed a successful year of operation and has resulted in better service to patients of the Out-Patient and Emergency Departments, and to the staff of the hospital.

The number of prescriptions filled decreased from a high of 143,216 in 1960 to 124,244 in 1961, and the value of drugs dispensed and issued in the hospital decreased from \$333,022 in 1960 to \$313,261 in 1961.

SOCIAL SERVICE DEPARTMENT



MISS I. CHENARD

The Social Service Department came into existence on October 1, 1961, as the result of the amalgamation of the Medical Social Service Division and the social case-work service of the Department of Psychiatry. The function of the Department is to deal with the patient's emotional and environmental problems related to his illness and impeding his recovery. As in many hospitals, the full effectiveness of this program will become evident only when adequate numbers of trained personnel become available. In the meantime a staff of six is doing all it can to assist patients and their families in solving the numerous problems that are presented.

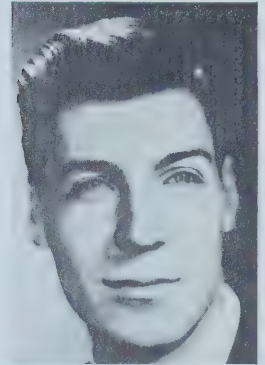
During 1961 a total of 2,772 interviews were held with, or on behalf of, 586 patients. A total of 2,575 outside contacts were made on behalf of 278 patients. Over one-half of the patients concerned were from Edmonton and its suburbs, one-third from the rural marketing area surrounding the city, and the rest from other urban centres, as well as other provinces and countries. The use of community resources in Edmonton benefitted 212 patients.

DEPARTMENT OF CHAPLAINCY

In July, 1960, the first full-time hospital chaplain in Edmonton was appointed by the United Church of Canada, with the approval of the Edmonton Council of Churches. He was responsible for service to the Royal Alexandra and University Hospitals. In July, 1961, a second full-time hospital chaplain was appointed by the United Church, and the Reverend Frank Jennings assumed responsibility for this hospital full time.

The resident chaplain does not replace the visits of the members of the Clergy to their parishioners, but rather he ministers to those who are not seen by members of the Clergy, or whose church affiliation in Edmonton is nebulous.

Ministrations by members of the Clergy are an important part of patient care, and the development of an increasingly-active Chaplaincy Service insures that the spiritual needs of the sick will be met in this hospital.



THE REVEREND
F. S. JENNINGS

The Women's Auxiliary has a three-fold purpose:

- 1—To promote community interest in, and understanding of, the University Hospital.
- 2—To maintain a supervised Volunteer Department in the Hospital.
- 3—To give service throughout the Hospital wherever it is needed.

The Auxiliary has a total membership of 90. During 1961 it raised \$2,314.42, most of which was used to pay the salary of the Director of Volunteer Services. Under the supervision of the Director, 1,334 volunteers contributed 8,946 hours of work to various areas of the Hospital. As well entertainment was arranged for hospital patients on many occasions, with special events provided in quantity in the Hallowe'en, Easter and Christmas seasons.

The services provided through the organization arranged and paid for by the Women's Auxiliary, plays an important part in hospital operation. The Hospital is grateful to the Auxiliary for its contribution, and the Auxiliary, in turn, thanks all of the individuals and organizations who have contributed in goods and services to the program in 1961, and encourages them to continue their voluntary assistance to our patient-care program.

WOMEN'S AUXILIARY



MRS. W. J. COBB

COMPARATIVE STATISTICAL REVIEW 1960 - 1961

ADMISSIONS:

	1960	1961
Total	22,160	22,059
Private	736	656
Semi-Private	3,859	3,969
Standard	12,088	11,672
Out Patient Department	1,235	1,654
Department Veterans' Affairs	427	506
Staff	233	149
Others	3,589	3,453

RELIGION:

Protestant	4,696	3,947
Roman Catholic	4,491	4,528
United Church	4,465	5,052
Presbyterian	746	739
Anglican Church of Canada	2,750	2,786
Lutheran	1,627	1,563
Others	3,391	3,444

NATIONALITY:

Canada	16,469	16,539
British Isles	1,943	1,966
U.S.A.	1,134	1,049
Others	2,620	2,505

BY DEPARTMENT:

Medical	4,813	4,951
Surgical	3,520	3,401
Obstetrical	2,446	2,473
Gynaecological	1,667	1,726
E.N. & T.	1,712	1,700
Orthopaedic	1,778	1,796
Dermatology	149	122
Neuro-Surgery	582	652
Paediatrics	2,197	1,382
Metabolic	310	303
Genito-Urinary	972	1,072

	1960	1961
Cardiology	343	276
Others	2,197	2,205
Maximum Admissions any one day	89	100
Minimum Admissions any one day	18	27
Maximum Discharges any one day	141	128
Minimum Discharges any one day	11	12
Maximum in Hospital any one day	1,068	1,089
Minimum in Hospital any one day	671	655
Number of patients at beginning of year	799	796
Total number of patients deceased during year	587	591
Total number of patients at end of year	796	768
Total number of patient days	356,449	349,818
Daily average number of patients	976	958
Average stay of patient (in days)	15.5	15.3

X-RAY DEPARTMENT:

Radiographs (films)	106,850	132,900
Radiographs (examinations)	36,131	41,514
Fluoroscopies	4,100	4,355
X-Ray Treatments	3,036	1,104

LABORATORY DEPARTMENT:

Examinations	290,086	313,626
B.M.R.'s	412	355
E.C.G.'s	2,036	6,643
Total	292,534	320,624

OPERATIONS:

Major	4,933	4,745
Minor	4,345	4,473
Genito-Urinary	2,119	2,127
Total	11,397	11,345

OUTPATIENT VISITS:

	122,091	124,281
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